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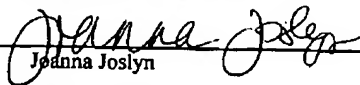
<b>In re United States Patent Application of:</b>	)	<b>Docket No.:</b>	<b>4241-661-RCE</b>
	)		
<b>Applicants:</b>	)	<b>Conf. No.:</b>	<b>4023</b>
<b>VAUDO, Robert P., et al.</b>	)		
	)	<b>Art Unit:</b>	<b>2823</b>
<b>Application No.:</b>	)		
<b>10/618,024</b>	)	<b>Examiner:</b>	<b>William D. Coleman</b>
	)		
<b>Date Filed:</b>	)		
<b>November 9, 2005</b>	)		
	)	<b>Customer No.:</b>	<b>23448</b>
<b>Title:</b>	)		
<b>SEMI-INSULATING GAN</b>	)		
<b>AND METHOD OF MAKING</b>	)		
<b>THE SAME</b>	)		

**FACSIMILE TRANSMISSION CERTIFICATE****ATTN: William D. Coleman****Fax No. (571) 273-8300**

I hereby certify that this document, along with any enclosures identified herein, is being filed in the United States Patent and Trademark Office, via facsimile transmission to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date specified below, to United States Patent and Trademark Office facsimile transmission number: (571) 273-8300.

**10 Pages**

Number of Pages (including cover)

  
Joanna Joslyn**May 10, 2006**

Date

**SUBMISSION OF POWER OF ATTORNEY AND STATEMENT UNDER  
37 CFR 3.73(b) FOR U.S. PATENT APPLICATION NO. 10/618,024**

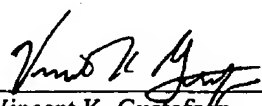
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

4241-661-RCE

Enclosed and submitted herewith is a Power of Attorney to Prosecute Applications before the USPTO (Form PTO/SB/80), and a Statement Under 37 CFR 3.73(b) (Form PTO/SB/96) for the above-identified U.S. patent application.

Respectfully submitted,

  
\_\_\_\_\_  
Vincent K. Gustafson  
Reg. No. 46,182  
Attorney for Applicants

INTELLECTUAL PROPERTY/  
TECHNOLOGY LAW  
Phone: (919) 419-9350  
Fax: (919) 419-9354  
Attorney File No.: 4241-661-RCE

**Enclosures:**

Power of Attorney to Prosecute Applications Before USPTO (Form PTO/SB/80) [1 pg.]  
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) [1 pg.]  
Copies of Assignments for Assignment History [ 6 pgs.]

The USPTO is hereby authorized to charge any deficiency or credit any overpayment of fees properly payable for this document to Deposit Account No. 08-3284

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PTO/SB/80 (04-05)

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**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

**23448**

AND



Practitioner(s) named below:

Name	Registration Number
Julio Garceran	37,138
Robert Pyles	57,495

as my/our attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent application assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please recognize or change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

**23448**

OR



Firm or  
Individual Name

Address

City

State

Zip

Country

Telephone

Email

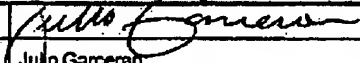
Assignee Name and Address:

Cree, Inc.  
4600 Silicon Drive  
Durham, NC 27703

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/98 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	10/12/05
Name	Julio Garceran	Telephone	(919) 313-5300
Title and Company	Associate General Counsel for Intellectual Property, Cree, Inc.		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.



\*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/86 (09-04)

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Vaudo, et al.Application No./Patent No.: 10/618,024Filed/Issued Date: November 9, 2005Entitled: SEMI-INSULATING GaN AND METHOD OF MAKING THE SAME

Cree, Inc. a Corporation  
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest.  
 The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel/Frame 015295/0678, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the United States Patent and Trademark Office at Reel/Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
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3. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the United States Patent and Trademark Office at Reel/Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Vincent K. Gustafson  
 Signature

May 10, 2006

Date

Vincent K. Gustafson  
 Printed or Typed Name

(919) 419-9350

Telephone Number

Attorney for Applicants  
 Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

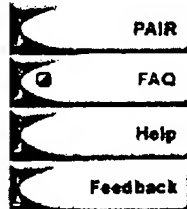
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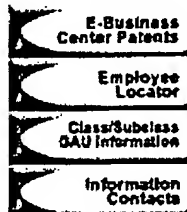
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## PATENT APPLICATION INFORMATION RETRIEVAL



## Other Links



## Patent Assignment Abstract of Title

## Total Assignments: 2

Application #: 10618024 Filing Dt: 07/11/2003

Patent #: NONE

Issue Dt:

PCT #: NONE

Publication #: US20050009310

Pub Dt: 01/13/2005

Inventors: Robert P. Vaudo, Xueping Xu, George R. Brandes

Title: Semi-Insulating GaN and method of making the same

## Assignment: 1

Reel/Frame:	014670 / 0447	Received:	11/12/2003	Recorded:	11/07/2003	Mailed:	06/01/2004	Pages:	3
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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: VAUDO, ROBERT P.

Exec Dt: 10/31/2003

XU, XUEPING

Exec Dt: 11/03/2003

BRANDES, GEORGE P.

Exec Dt: 11/03/2003

Assignee: ADVANCED TECHNOLOGY MATERIALS, INC.

7 COMMERCE DRIVE

DANBURY, CONNECTICUT 06810

Correspondent: ADVANCED TECHNOLOGY MATERIALS, INC.

WILLIAM F. RYANN, ESQ.

7 COMMERCE DRIVE

DANBURY, CT 06810

## Assignment: 2

Reel/Frame:	015295 / 0678	Received:	05/07/2004	Recorded:	05/05/2004	Mailed:	11/03/2004	Pages:	4
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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: ADVANCED TECHNOLOGY MATERIALS, INC.

Exec Dt: 03/31/2004

Assignee: CREE, INC.

4600 SILICON DRIVE

DURHAM, NORTH CAROLINA 27703

Correspondent: CREE, INC.

DAVID C. HALL, ESQ.

4600 SILICON DRIVE

DURHAM, NC 27703

Search Results as of: 3/7/2006 4:00:25 P.M.

**Disclaimer:**

Assignment information on the assignment database reflects assignment documents that have been actually recorded.

If the assignment for a patent was not recorded, the name of the assignee on the patent application publication or patent may be different.

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## PATENT ASSIGNMENT

This PATENT ASSIGNMENT is made as of March 31, 2004, from Advanced Technology Materials, Inc., a Delaware corporation having an address at 7 Commerce Drive, Danbury, CT 06810 (hereinafter referred to as "Assignor"), to Cree, Inc., a corporation organized under the laws of the State of North Carolina, having a place of business at 4600 Silicon Drive, Durham, NC 27703 (hereinafter referred to as "Assignee").

WHEREAS, Assignor is the owner of the patents and patent applications identified on Schedule A attached hereto (hereinafter collectively, the "Patents"); and

WHEREAS, Assignee is desirous of acquiring the Patents; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby sell, transfer, convey, grant and assign unto Assignee, Assignor's entire right, title and interest in and to the Patents and the inventions claimed therein, in the United States and all jurisdictions outside the United States, including the right to apply for letters patent in any and all such jurisdictions based on said Patents, and including all divisional, renewal, substitute, continuation, continuation-in-part, reexamination, reissue, extension and convention applications or patents based in whole or in part upon said Patents, and any and all letters patent that may issue thereon, in any and all such jurisdictions, to the full end of the term or terms for which said letters patent may be issued, and every priority right that is or may be predicated upon or arise from the foregoing, the same to be held and enjoyed by Assignee for its own use and benefit and for the use and benefit of its successors and assigns, to be used as fully and entirely as said rights would have been held and enjoyed by Assignor if this assignment had not been made.

Assignor hereby authorizes the Commissioner of Patents and Trademarks of the United States and other empowered officials of the United States Patent and Trademark Office and/or the appropriate empowered officials in relevant jurisdictions outside the United States to record the transfer of the Patents to Assignee as assignee of Assignor's entire right, title and interest therein, and to issue to Assignee all letters patent and other items referred to above which may issue with respect to the Patents, in accordance with this Patent Assignment.

[continued on next page]

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be executed by its proper officer thereunto duly authorized, as of the date first above written.

ASSIGNOR:

Advanced Technology Materials, Inc.

By: 

Name: Daniel P. Sharkey

Title: Vice President, Treasurer and Chief Financial Officer

STATE OF

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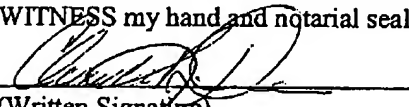
} ss:

COUNTY OF

}

Before me, the undersigned, a Notary Public of the State of Connecticut, personally appeared Daniel P. Sharkey, having been sworn by me according to law did depose and say he was the Vice President, Treasurer and Chief Financial Officer of Advanced Technology Materials, Inc., (the "Assignor") and did acknowledge the execution of the foregoing Patent Assignment on behalf of said Assignor.

WITNESS my hand and notarial seal this the 21<sup>st</sup> day of March, 2004.

  
(Written Signature)

Claudia K. Dene  
(Printed Signature)

**CLAUDIA K. DENE**  
**NOTARY PUBLIC**  
My Commission Expires Dec. 31, 2005

ASSIGNEE:

Cree, Inc.

By: 

Name: John W. Palmour

Title: Executive Vice President

Patent Assignment  
**CONFIDENTIAL**

SCHEDULE A

## PATENTS AND PATENT APPLICATIONS

10/618,024 – Semi-Insulating GaN and Method of Making Same  
Filed 7/11/2003

MAY 10 2006

Docket No. 661

## ASSIGNMENT

We have made an invention described in the U.S. Patent Application entitled "SEMI-INSULATING GaN AND METHOD OF MAKING SAME" which has been executed by us on the same date as this Assignment for filing in the United States Patent and Trademark Office.

We assign to Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut 06810, all of our ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (ii) U.S. Patents on the invention; and
- (iii) corresponding foreign patent applications and patents.

We are making this assignment based on our relationship with Advanced Technology Materials, Inc.

We request the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue patents on the invention to Advanced Technology Materials, Inc.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

We agree that we will promptly communicate to Advanced Technology Materials, Inc. all facts that come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

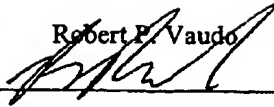
We state that we have not previously taken any action in conflict with this Assignment.

Docket No. 661

Full Name of first inventor:

Robert E. Vaudo

Inventor's Signature



Date

10/31/03

Residence: 19 Pleasant View Road, New Milford, CT 06776

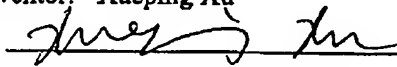
Citizenship: U.S.

Post Office Address:

(if different from  
Residence Address)

Full Name of second inventor: Xueping Xu

Inventor's Signature



Date

11/3/03

Residence: 15 Central Street, Stamford, CT 06906

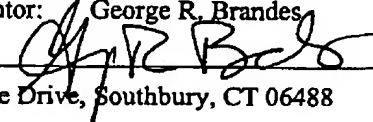
Citizenship: U.S.

Post Office Address:

(if different from  
Residence Address)

Full Name of third inventor: George R. Brandes

Inventor's Signature



Date

11/3/03

Residence: 77 Shane Drive, Southbury, CT 06488

Citizenship: U.S.

Post Office Address:

(if different from  
Residence Address)